

REMARKS/ARGUMENTS

The Examiner is thanked for the thorough examination of this application. Claims 1-4, 6-14, 16-20 and 23, which are elected under the requirement of 35 U.S.C. § 121, however, stand objected and/or rejected in the Office Action of August 22, 2007. As set forth above, claims 4, 13-14 and 17 have been cancelled without prejudice, and claims 1, 3, 7-8, 10-12, 16, 18 and 23 have been amended without entering any new matters. Accordingly, elected claims 1-3, 6-12, 16, 18-20 and 23 currently are pending. Favorable reconsideration and allowance of the claims are respectfully requested.

10 **Response to the claim rejections:**

Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Gilbert et al (U.S. Patent No. 7123670; hereafter “Gilbert”) in view of Singh et al (U.S. Patent No. 7139320; hereafter “Singh”). Applicants have amended claim 1 and believe the amended claim 1 is patentable over Gilbert in view of Singh because neither Gilbert nor Singh discloses the following limitations: “a pilot subchannel estimator for generating a first frequency response of the first and the second symbols according to the pilot signals of the first and the second symbols transmitted over the first pilot subchannel and a second frequency response of the first and second symbols according to the pilot signals of the first and second symbols transmitted over the second pilot subchannel; and a timing offset estimator, coupled to the pilot subchannel estimator, for calculating a timing offset according to a difference between the first and second frequency response.” Gilbert at most discloses that the frequency offset can also be updated by measuring the difference in the phase of a pilot channel in two data symbols or by measuring the difference in phase between the terminal portion of a data symbol and the data symbol’s cyclic prefix (or guard interval) (Gilbert: Col. 12, lines 22-26), but nowhere teaches or suggests **generating two frequency responses corresponding to different pilot subchannels**

and calculating a timing offset according to a difference between the two frequency responses. Singh does not compensate for the deficiencies of Gilbert. Therefore, the amended claim 1 is patentable over Gilbert in view of Singh. Since claims 2-3 and 6-9 are dependent upon claim 1, if claim 1 is found to be allowable, so too should the dependent claims.

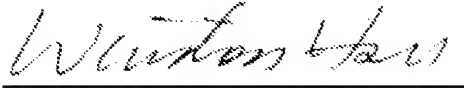
Applicants also assert that claims 10, 18 and 23 are patentable over Gilbert and Singh because of at least the same reasons placing claim 1 allowable. Since claims 11-12, 16, and 19-20 respectively dependent upon claims 10 and 18, if claims 10 and 18 are found to be allowable, so too should the dependent claims.

Conclusion:

In view of the above remarks/arguments and amendments set forth above, Applicants respectfully request allowance of claims 1-3, 6-12, 16, 18-20 and 23. If the Examiner believes that a telephone interview will help speed this application toward issuance, the Examiner is invited to contact the undersigned at the telephone number listed below.

Appl. No. 10/803,047
Amdt. dated November 08, 2007
Reply to Office action of August 22, 2007

Sincerely yours,



Date: 11.08.2007

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- 10 Note: Please leave a message in my voice mail if you need to talk to me. (The time in D.C. is 13 hours behind the Taiwan time, i.e. 9 AM in D.C. = 10 PM in Taiwan.)